

Department of Earth Sciences Courses List (2023 Spring) – Undergraduate Program

Note :

1. The number with the break () indicates the credits.
2. Color Code: **Eligible Course**, **Astronomy**, **Atmospheric Science**, **Geology**, **Geophysics**, **Ocean**, **Sci. Edu./Edu. Program** , **Integrated Course**.
3. Course with “*” are Master Joint Courses; courses in bold and italic are taught in English in the corresponding semester.

111-2 (2023 Spring)	Required	Selected
Freshman (Year 1)	Astronomy(including Lab.)(3) General Meteorology(including Lab.)(3) Introduction to Oceanography(including Lab.)(3)	
Sophomore (Year 2)		The Solar System(3) Computer Application in Earth Sciences(3) Fluid Dynamics(3) Petrology (including Lab.)(3)* Planet and Earth Systems Scientific Research Writing Program (II)(3)
Junior (Year 3)		Active Galaxies(3)* Atmospheric Dynamics (II)(3)* Climate Change Science and Practical Data Analysis (3)* Field Geology (including Lab.)(3)* Advanced Field Geological Techniques(3)* Sedimentology and Stratigraphy(3)* Continent and Supercontinent Evolution(3)* Geology of Taiwan(3)* Volcanology and Volcanic Hazards (Including Lab.) (3)* Principle of Geotechnical Engineering(3)* Petroleum Geochemistry(3)* Earth Science Aspects of Renewable Energy(2)* Historical Geology (including Lab.)(3) Physics and Chemistry of the Earth's Interior(3)* Introductory Marine Biology(3)* Earth System and Comparative Planetology(3)* Scientific Field Expeditions of Earth Systems(3)* Inquiry and Practical Work in Science(2)*
Senior (Year 4)		Teaching Practicum: Earth Sciences(I)(2)